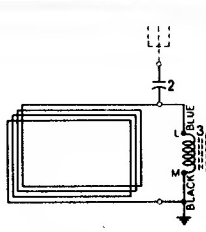
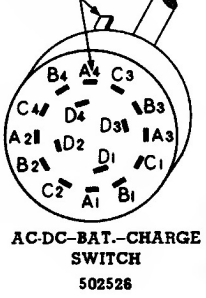


REFERENCE DOT

ANTENNA COIL 502499



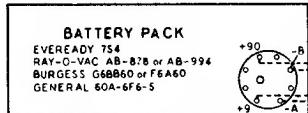
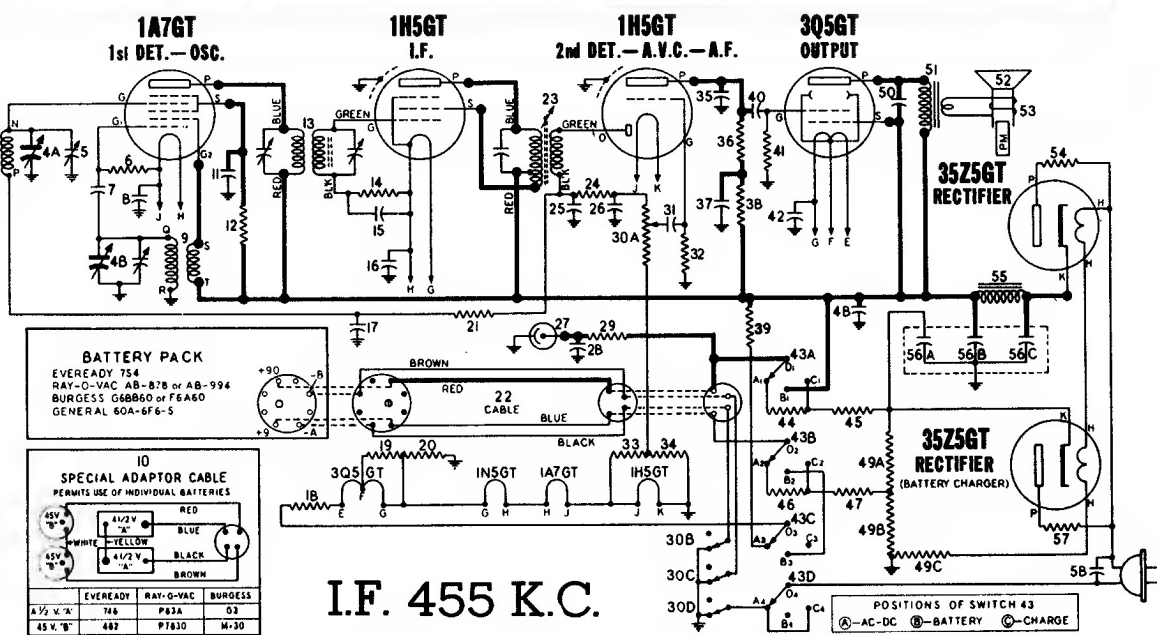
NOTE THAT LUG IS OPPOSITE TERMINAL A4



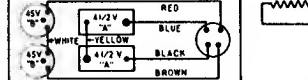
AC-DC-BAT-CHARGE SWITCH 502526

Lettered terminals in illustrations correspond to similarly lettered terminals on the circuit diagram.

OSC. COIL 502498



BATTERY PACK EVEREADY 75 RAY-O-VAC AB-878 or AB-994 BURGESS G6B660 or F6A60 GENERAL 60A-6F6-5



	EVEREADY	RAY-O-VAC	BURGESS
A 1/2 V. N.	746	PA3A	033
45 V. W.	482	F7830	M-30

I.F. 455 K.C.

SOCKET VOLTAGES

Measured with voltmeter having sensitivity of 1000 ohms per volt except where indicated by (*).

VOLUME ON FULL WITH NO SIGNAL DIAL TUNED TO 540 KC.

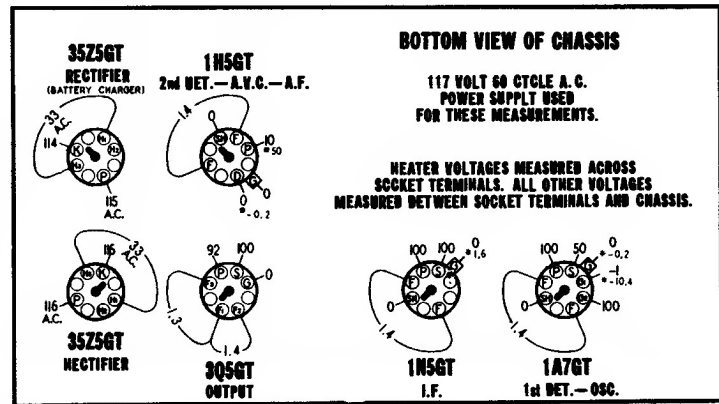
"AC-DC-BAT-CHARGE" SWITCH IN "AC-DC" POSITION

CONDENSERS

2	502150	Condenser—.004 Mfd. 600 volt.
4-A, B	502494	Condenser—variable ggm.
5	119132	Condenser—trimmer 2 to 15 Mmd.
6	502159	Condenser—mica 50 Mmd. 500 volt.
7	502153	Condenser—.05 Mfd. 200 volt.
8	502547	Condenser—electrolytic 4 Mfd. 150 volt.
11	502153	Condenser—.05 Mfd. 200 volt.
15	502153	Condenser—.1 Mfd. 200 volt.
16	502153	Condenser—.1 Mfd. 200 volt.
17	502153	Condenser—.1 Mfd. 200 volt.
25	502159	Condenser—mica 50 Mmd. 500 volt.
28	502156	Condenser—.004 Mfd. 400 volt.
31	502180	Condenser—mica 110 Mmd. 300 volt.
33	502151	Condenser—.1 Mfd. 200 volt.
37	502151	Condenser—.01 Mfd. 400 volt.
40	502527	Condenser—electrolytic 30 Mfd. 25 volt.
42	502155	Condenser—.1 Mfd. 200 volt.
43	502155	Condenser—.002 Mfd. 400 volt.
50	502453	Condenser—electrolytic
56-A, B, C	500714	A—.20 Mfd. 200 volt B—.20 Mfd. 200 volt C—.20 Mfd. 200 volt
58	502153	Condenser—.05 Mfd. 200 volt.

RESISTORS

6	502133	Resistor—carbon 220,000 ohms 1/4 watt
12	502131	Resistor—carbon 47,000 ohms 1/4 watt.
14	502131	Resistor—carbon 10 Meg. 1/4 watt.
18	502455	Resistor—carbon 27 ohms 1/4 watt.
19	502457	Resistor—carbon 330 ohms 1/4 watt.
20	502458	Resistor—carbon 450 ohms 1/4 watt.
21	502458	Resistor—carbon 450 ohms 1/4 watt.
22	502132	Resistor—carbon 100,000 ohms 1/4 watt
24	502269	Resistor—carbon 3.3 Meg. 1/4 watt.
29	502269	Volume control (with switch) 1 Meg.
30-A, B, C, D	502269	Resistor—carbon 2.2 Meg. 1/4 watt.
32	502456	Resistor—carbon 1 Meg. 1/4 watt.
33	502456	Resistor—carbon 1 Meg. 1/4 watt.
36	502456	Resistor—carbon 1 Meg. 1/4 watt.
38	500713	Resistor—wire wound 1,850 ohms 1/2 watt
39	500713	Resistor—wire wound 1,850 ohms 1/2 watt
41	502153	Resistor—carbon 7.2 000 ohms 1/4 watt.
44	502266	Resistor—carbon 6800 ohms 1/4 watt.
45	502459	Resistor—carbon 330 ohms 1/4 watt.
46	502459	Resistor—carbon 330 ohms 1/4 watt.
47	502459	Resistor—carbon 27 ohms 1/4 watt.
49-A, B, C	500713	Resistor—wire wound 10 watt A—155 ohms 1 watt B—310 ohms 1 watt C—310 ohms 1 watt
54	502454	Resistor—wire wound 47 ohms 1 watt
57	502454	Resistor—wire wound 47 ohms 1 watt



REAR OF CHASSIS *—Measured with vacuum tube voltmeter.

STEWART-WARNER MODELS 9007-A,F,G.

ALIGNMENT PROCEDURE

Slide chassis partially out of cabinet by removing staples at each side of wood shelf and pulling entire shelf back about 2 inches. Do not disturb connections to loop antenna.

Connect an output meter across the voice coil of the speaker or between the plate of the 3Q5GT output tube and chassis through a .1 mfd. condenser.

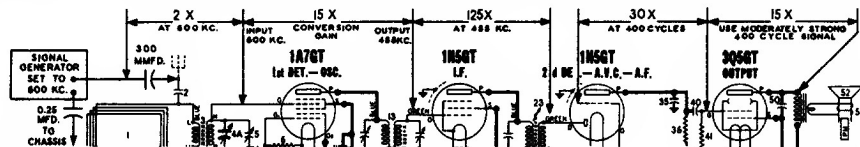
Connect the ground lead of the signal generator to chassis through a .25 mfd. condenser.

Set the volume control in the maximum position and use a weak signal from the generator.

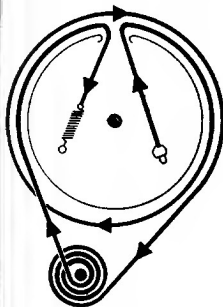
Set "AC-DC-BAT.-CHARGE" Switch in "AC-DC" position.

DUMMY ANT. IN SERIES WITH SIGNAL GENERATOR	CONNECT HIGH SIDE OF SIG. GENERATOR TO	SIGNAL GENERATOR FREQUENCY	RECEIVER DIAL SETTING	TRIMMER NUMBER	TRIMMER DESCRIPTION	TYPE OF ADJUSTMENT
300 MMFD. Condenser	Grid Cap of 1A7GT Tube	455 KC.	Any Point Where It Does Not Affect Signal	1	2nd I.F.	Loosen lock nut. Adjust screw for maximum output.
				2-3	1st I.F.	Adjust for maximum output. Re-check 1, 2 and 3 for maximum output and tighten lock nut on 1.
300 MMFD. Condenser	Center Terminal on Antenna Terminal Strip at bottom of cabinet.	1500 KC.	1500 KC. (Slide set into cabinet and replace pointer to set dial.)	4	Broadcast Oscillator (Shunt)	Adjust trimmer for maximum output.
300 MMFD. Condenser	Center Terminal on Antenna Terminal Strip at bottom of cabinet.	1500 KC.	Tune to 1500 KC. Generator Signal	5	Broadcast Antenna	Adjust for maximum output. Slide chassis all the way into cabinet when making this adjustment.

The R.F. and I.F. stage gains shown below are less than under normal operating conditions due to the use of 1½ volts fixed bias in order to establish a definite operating point. Therefore, these values are not intended to indicate the full capability of a stage.



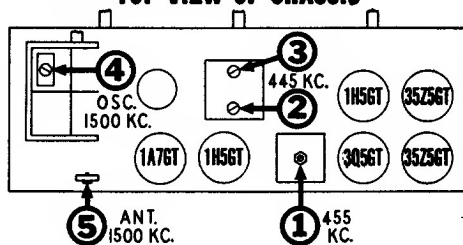
Differences in tube characteristics, tolerance of parts, adjustment of tuned circuits, and variations of line voltage will influence stage gain. Accuracy of measurements is dependent upon careful tuning of receiver to generator signal and experience in using your test equipment. These factors may create considerable variation in gain measurements.



DIAL DRIVE CORD ARRANGEMENT

To string dial cord, set gang condenser to fully meshed position

TOP VIEW OF CHASSIS



INDICATOR LAMP

The flashing neon lamp on the dial face indicates condition of batteries. This lamp is included in an oscillating (R-C) circuit which is designed to oscillate at approximately 3 pulses per second when batteries are in a fully charged condition. As the battery voltage decreases with use, number of pulses per second decreases.

This lamp will only show the true condition of the batteries when the Selector Switch is in the "Battery" position. Lamp flashes more rapidly during charging or "AC-DC" operation.

When battery voltage is low (approximately 72 volts) the lamp flashes more slowly (about once per second). The set should not be operated from battery power after this point is reached and batteries should be recharged immediately. Charge for at least twice the time they were used and as soon as possible after they are run down. As batteries age it is necessary to charge for a longer period. For longest battery life, charge immediately after using.

IMPORTANT: 1. Completely dead batteries cannot be recharged.

2. When set is connected to a DC line, check for correct polarity by operating it before attempting to charge the batteries.

3. Batteries will be discharged if ON-OFF switch is left ON when power cord is not connected to wall outlet.

CHARGING CIRCUIT

The battery charging circuit consists of a 3S25GT rectifier and a suitable resistor voltage dividing network. This circuit provides a very low charging current when the receiver is operated on AC-DC and is just enough to maintain the batteries but will not charge them. A separate charging position is provided for the regular charging operation. A charging rate of approximately 1/3 the discharge rate is used to give best results.